

IVANOVA, L.N.; SEVERINA, T.A.; KOGAN, G.A.; KUCHEROV, V.F.

Some reaction of β -diketones of the perhydroindan series. Izv. AN
SSSR. Ser. khim. no. 8: 1438-1445 Ag '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
(Ketones) (Indan)

SEGAL', G.M.; RYBKINA, L.P.; KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.56: Steric course of the diene condensation of 1-(ϵ -vinyl chloride) Δ^1 -cyclohexene with trans-nitropropylene. Izv.AN SSSR.Ser.khim. no.8:1421-1428 Ag '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Cyclohexene) (Propene) (Stereochemistry)

SMIT, V.A.; SEMENOVSKIY, A.V.; KUCHEROV, V.F.

Cyclization of isoprenoid compounds. Report No.7: Low-temperature cyclization of dihydro- α -, dihydro- β -, and dihydro- γ -ionones.
Izv. AN SSSR. Ser.khim. no.9:1601-1607 S '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Ionone) (Cyclization)

RUDEKNO, B.A.; NAZAROVA, I.I.; KUCHEROV, V.P.

Gas-liquid chromatography of oxygen-containing polyene compounds.
Izv. AN SSSR. Ser.khim. no.9:1545-1548 S '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Unsaturated compounds) (Gas chromatography)

YUFIT, S.S.; KUCHEROV, V.F.

Dimerization of cyclic ethylene acetal of crotonaldehyde. Izv.
AN SSSR. Ser.khim. no.9:1695-1696 S '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Crotonaldehyde) (Ethylene compounds)

SMIT, V.A.; SEMENOVSKIY, A.V.; KUCHEROV, V.F.

Dependence of the steric course of isoprenoid cyclization reaction
on the configuration of 6,7-double bond. Izv. AN SSSR. Ser.khim.
no.9:1702 S '63. (MIRA 16:9)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.
(Isoprenoids) (Cyclization) (Double bonds)

SMIT, V.A.; SEMENOVSKIY, A.V.; RUDENKO, B.A.; KUCHEROV, V.F.

Cyclization of isoprenoid compounds. Report No. 8: Mechanism of
the stereospecific cyclization of geranylacetone. Izv. AN SSSR
Ser.khim. no.10:1782-1789 O '63. (MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

SHABANOV, A.L.; ONISHCHENKO, A.S.; KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.62: Stereochemistry
of oxidation of 4-methyl- Δ^4 -cyclohexene-1,2-dicarboxylic acid
anhydride. Izv. AN SSSR Ser.khim. no.10:1790-1795 0 '63.
(MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

SHABANOV, A.L.; ONISHCHENKO, A.S.; KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.63: Stereochemistry
of bromination of 4-methyl- Δ^4 -cis-cyclohexene-1,2-dicarboxylic acid
and its anhydride. Izv. AN SSSR Ser.khim. no.10:1795-1801 O 63.
(MIRA 17:3)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

KUCHEROV, V.F.; KAZARYAN, S.A.; ANDREYEV, V.M.

Stereochemistry of cyclic compounds. Report No.57: Spatial and steric course of diene condensation of 1-vinyl- Δ^1 -cyclohexene with ethyl pseudo- β -formyl acrylate. Izv. AN SSSR. Ser. khim. no.11:1996-2002 N '63.

Stereochemistry of cyclic compounds. Report No.58: Some transformations of isomeric 2-formyldecalin-1-carboxylic acids under conditions of the Knoevenagel reaction. (MIRA 17:1) Ibid.:2003-2007

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

SEREBRYAKOV, E.P.; KUCHEROV, V.F.

Stereochemistry of hydrindan systems. Usp.khim. 32 no.10:1177-1200
O '63. (MIRA 16:12)

1. Institut organicheskoy khimii AN SSSR imeni N.D.Zelinskogo.

KUCHEROV, V. F.; SEMENOVSKIY, A. V.; SMIT, V. A.

"A new route for the stereospecific cyclisation of isoprenoids."

Report presented for the 3rd Intl. Symposium on the Chemistry of
Natural Products (IUPAC), Kyoto, Japan, 12-18 April 1964.

RUDENKO, B.A.; POTAPOVA, L.G.; KUCHEROV, V.F.

Using natural fats as the liquid stationary phase in gas-liquid chromatography. Zhur. anal. khim. 19 no.7:802-809 '64.

(MIRA 17:11)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR, Moskva.

L 2117-65 EST(n)/KPF(c)/LPP(j) Po-4/Pr-4 FI
 ACCESSION NR: AP4043459 S/0075/64/019/008/0917/0921

AUTHORS: Rudenko, B.A.; Potapova, L.G.; Kucherov, V.F. 123
 21

TITLE: The use of polysiloxanes as stationary liquid phases in gas-liquid chromatography

SOURCE: Zhurnal analiticheskoy khimii, v. 19, no. 8, 1964, 917-921

TOPIC TAGS: column packing material, polysiloxane, thermal stability, silicone, polyphenylmethyl siloxane

ABSTRACT: Until now there are no data which enable comparison of the thermal stability and separation ability of imported and local polysiloxanes. The purpose of this work was to close this gap to some extent. The comparison was made of the following siloxanes: E-301 (England); homocyl-410 (France); silicone vasoline (Czechoslovakia); vat residues of polyphenylsiloxane (Czechoslovakia); SKTV-1 (USSR); SKT (USSR); ethyl silicone oil (USSR); silicone liquid 5 (USSR); copolymer No. 2 (USSR); vat residues of polyphenylmethyl siloxane (USSR). The most thermally stable materials (four local and three foreign) were compared for their separating ability

cont 1/3

L 2117-65

ACCESSION NR: AP4043459

using the simplest compounds. For all samples determinations were made of the content of silicon and of their molecular weights and IR spectrum was taken in the 100-1500 cm^{-1} region, containing bands which are characteristic of $\text{CH}_3\text{-Si}$ bands (about 1260 cm^{-1}) and $\text{C}_6\text{H}_5\text{-Si}$ (1130 and 1430 cm^{-1}). The measurements were conducted on an IKS-12 instrument with a NaCl prism. The molecular weights of polymers were determined from the viscosity of their solutions in benzene and for lower molecular weight samples it was determined cryoscopically. The average molecular weight for rubber-like samples was 60000-70000, for silicone vaseline it was about 3500 and for liquid polysiloxanes -- 450 - 2000. The thermal stability of the indicated polysiloxanes was determined from the weight loss as a function of temperature. It was shown that the investigated polysiloxanes, despite the great difference of molecular weight differ very little with respect to separation of a mixture of saturated aromatic hydrocarbons. Polysiloxanes which contain phenyl groups can selectively retain aromatic components in the mixture. It was shown, for example,

Card 2/3

L 2117-65
ACCESSION NR: AP4043459

2
that it is easy to separate benzene and cyclohexane. The ability of polysiloxanes to separate geometric isomers was demonstrated by the separation of ethyl esters of cis- and trans-4-phenylcyclohexane carboxylic acid. The data show that locally produced polysiloxanes SKTV-1 and vat residue of polyphenylmethyl siloxane used as stationary phases are not any worse than foreign-made polysiloxanes. They can be stably used up to 250°C. The authors express their gratitude to G. A. Kogan for carrying out spectral measurements and for his help with the interpretation of the results. Orig. art. has: 2 tables and 3 figures.

ASSOCIATION: Institut organicheskoy khimii im. N.D. Zelenskogo AN SSSR (Institute of Organic Chemistry, AN SSSR)

SUBMITTED: 10Jul63

ENCL: 00

SUB CODE: CC, CC

NR REF SOV: 004

OTHER: 009

Cord 3/3

MAVROV, M.V.; KUCHEROV, V.F.

Cyclization of methyl ester of α -propionyllevulinic acid.
Izv.AN SSSR. Ser.khim. no.1:164-166 Ja '64. (MIRA 17:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

SEMENOVSKIY, A.V.; SMIT, V.A.; KUCHEROV, V.F.

Cyclization of isoprenoid compounds. Report No.9: Stereospecific cyclization of geranylacetic acid, its methyl ester and monocyclic analogs. Izv. AN SSSR. Ser.khim. no.3:504-512 Mr '64.

(MIRA 17:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

MISTRYUKOV, E.A.; ARONOVA, N.I.; KUCHEROV, V.F.

Synthesis of some substituted N-propargyl- γ -piperidones. Izv.
AN SSSR. Ser.khim. no.3:512-519 Mr '64. (MIRA 17:4)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

EL'YANOV, B.S.; RUDENKO, B.A.; GONIKBERG, M.G.; KUCHEROV, V.F.

Effect of pressure on the structural and steric orientation of diene synthesis. Report No.1: Condensation of 1-vinylcyclopentene with methyl acrylate. Izv. AN SSSR. Ser. khim. no.6:1082-1089 Je '64. (MIRA 17:11)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

GURVICH, I.A.; KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.59: Action of hypobromous acid on 13-methyl-7-keto-~~4~~¹⁰12-dodecahydrophenanthrene-cis-1,2-dicarboxylic acid and its diester. Izv. AN SSSR Ser. khim. no.7:1241-1245 J1 '64. (MIRA 17:8)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

NAZAROVA, I.I.; YANOVSKAYA, L.A.; KUCHEROV, V.F.

Chemistry of acetals. Report No.15: Selective hydrolysis of 1,
1,3-triethoxy-4-hexene and some reactions of 3-ethoxy-4-hexenal.
Izv. AN SSSR Ser. khim no.7:1245-1249 J1 '64.

(MIRA 17:8)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

GUSEV, B.P.; KUCHEROV, V.F.

Character of alcohol addition to diacetylenic carbinols.

Izv. AN SSSR Ser. khim. no.7:1318-1319 J1 '64.

(MIRA 17:8)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

[illegible]

1. *Journal of the American Medical Association*, 1990; 263: 1025-1028.

ИЗДАТЕЛЬСТВО, Л. А., Kuchnerov, V. P.

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1. The first group of people who are interested in the study of the history of the United States are the people who are interested in the history of the United States.

$\frac{d}{dt} \left(\frac{1}{2} m v^2 \right) = - \frac{d}{dt} \left(\frac{1}{2} k x^2 \right)$

The reaction of the diethyl ester of carbethoxymethylene with phosphorus compounds strengthened the idea of the formation of esters with trans-configuration of the double bond. The reaction of carbethoxymethylene with triphenylphosphorane and the dimethyl ester of carbethoxymethylene with spatially unhindered phosphorane led to the formation of trans-isomers. The results follow the pattern of the Wittig reaction. (Tables 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100).

Card 1/2

SUBMITTED: 27Dec63

ENCL: 00

SUB CODE: 00, 00

NO REF SOV: 005

OTHER: 003

JPRS

Card 2/2

KUCHEROV, V.F.; GURVICH, I.A.; RUDENKO, B.A.

Stereochemistry of cyclic compounds. Report No.60; Synthesis
of dicarboxylic acids of the decahydrofluorene series. Izv.
AN SSSR. Ser. khim. no.8:1456-1463 Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SEGAL', G.M.; RYBKINA, L.P.; KUCHEROV, V.F.

Stereochemistry of cyclic compounds. Report No.61: Structural and steric course of diene condensations of some vinylcycloenes with asymmetrical trans-dienophiles. Izv. AN SSSR. Ser. khim. no.8:1463-1470 Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im. N.F. Zelinskogo AN SSSR.

GURVICH, I.A.; KUCHEROV, V.F.

Cis-1-vinyl-8-methyl- Δ^1 -hexahydroinden-5-one in the reactions
of diene synthesis. Izv. AN SSSR. Ser. khim. no.8:1507-1509
Ag '64. (MIRA 17:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

MAVROV, M.V.; KUCHEPOV, V.F.

Chemistry of polyene and polyacetylene compounds. Report No.10: Condensation of 1-bromo-2,3-dimethyl-2-penten-4-yne with a sodium malonic ester. Izv.AN SSSR.Ser.khim. no.9:1653-1660 S '64.

(MIRA 17:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

MAVROV, M.V.; KUCHEROV, V.F.

Chemistry of polyene and polyacetylene compounds. Report No.11:
Intramolecular cyclization of vinylacetylene derivatives. Izv.
AN SSSR. Ser. khim. no.10:1820-1827 O '64. (MIRA 17:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SWT(4)/EPF(6)/EWP(3)/T
4195000490

Pc-4/Pr-4

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8/0052/64/000/011/2093/2095

33
22

omega nitropolyenic acid ester condensation nitro-
polyenic acid aldehyde oxynitro- ester

the first time a method for the synthesis of the type
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L 22/44-65

ACCESSION NR: AP5000490

PCl_5 means phosphorus trihalide

For synthesis of the esters of the oxynitroacids (III) condensation of the esters

of the oxynitroacids (II) was conducted in methanol in the presence of sodium

hydroxide in yields. The lower members of the series (II) (I, II)

were yellowish oily substances which were easily separated and purified

by distillation. It was impossible for the higher members which could not be vaporized with-

out decomposition. The structure of the esters (II) was based on

the results of the analysis of the esters (II) and the results of the

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Card 3/3

YANOVSKAYA, L.A.; KUCHENOV, V.F.

Hydrolysis of some dialdehyde bis-acetals. Izv. AN SSSR Ser.
khim. no.11:2097-2099 N '64 (MIRA 18:1)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

KUCHEROV, V.F.; GURVICH, I.A.; MIL'SHTEIN, I.M.

Stereochemistry of the oxidation of geometrical isomers of
13-methyl-7-acetoxy- $\Delta^4(12)$ -dodecahydrophenanthrene-
1,2-dicarboxylic acid and their derivatives. Dokl. AN SSSR
158 no.1:159-162 3-0 '64 (MIRA 17:8)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN SSSR.

KUCHEROV, V.F.; ONISHCHENKO, A.S.; RUDENKO, B.A.; EL'PERINA, Ye.A.

Influence of the temperature on the structural directivity of diene synthesis. Dokl. AN SSSR 158 no.2:397-399 S '64.

(MIRA 17:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Predstavleno akademikom B.A.Kazanskim.

TRASHAYA, Zh.A.; KUCHENKO, V.F.

Condensation of carboxylic acid esters with ethoxyacetylene.
Izv. AN SSSR Ser. khim. no.1:110-115 '65.

(MIRA 18:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

KRASNAYA, Zh.A.; LEVCHENKO, T.S.; RUDENKO, B.A.; KUCHILOV, V.F.

Hydrodimerization of alkoxyacetylenes under the effect of boron
trifluoride etherates. Izv. AN SSSR Ser. khim. no.2:313-322 '65.
(MIRA 18:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

MAVROV, M.V.; KUCHEROV, V.F.

Synthesis of esters of stereoisomeric 4,5-dimethyl-2,4-heptadien-6-ynoic acid. Izv. AN SSSR. Ser. khim. no.3:546-548 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

ACCESSION NO. ABS012452

Doc. No. 4

AUTHOR: Gusev, B. P.; Nazarova, L. I.; Kucherov, V. F.

TITLE: The chemistry of polyene and polyacetylene compounds. Communication 12.
Hydration of tertiary alcohols and glycols of the 1,3-diene type.

ACCESSION NR: AP5012452

heating of indole with an aqueous solution of dimethylamine. This indicates that the product has a hydrofuran structure. It was discovered that diacetylene alcohol is completely decomposed when heated with dimethylamine, but that diacetylene glycol is not hydrated when heated in an aqueous potash solution. This means that the final stage of furan formation from diacetylene glycol is apparent attachment of secondary amines by an acetylene bond, with subsequent elimination of acetylene molecule (and not the reverse). It is shown that when

diacetylene alcohols that do not contain the acetylene group, the reaction system probably follows the same course. Orig. art. heat 1

NO REV SOV: 002

OTHER: 003

NAZAROVA, I.I.; GUSEV, B.P.; KUCHEROV, V.F.

Regularities in the addition of secondary amines to diacetylenic alcohols. Izv. AN SSSR. Ser. khim. no.4:729-731 '85. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

IVANOVA, L.H.; JIVERINA, T.A.; KUCHEROV, V.P.

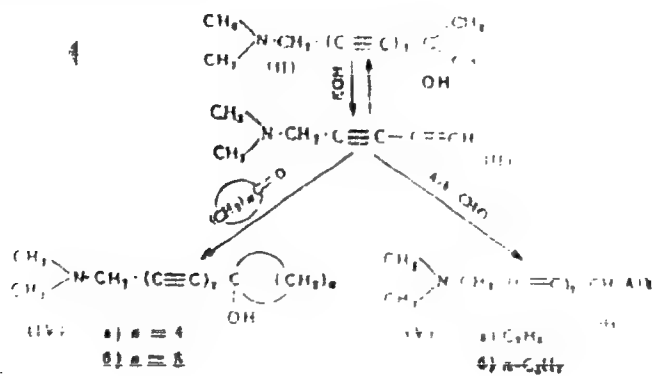
Chemical transformations of methyl ether of cis-18-nor-
21⁹(n) oestra-15,17-dione. Izv. AN SSSR. Ser. khim. no.5:
843-845 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

L 57782-65

EXPRESSION NR: AP5015588

Other reactions which produce tertiary and secondary acetylenic amino alcohols were as follows:



Card 2/3

2
SESSION NR: AP5015588

It is known that diacetylenic amines of the type of III readily enter into a reaction with the convenient starting material, which is a compound of the type of IV. The reaction is described in detail. Orig. art. has 12 refs.

LOCATION: Institut organicheskoy khimii im. N.D. Zelinskogo Akademii nauk SSSR
Department of Organic Chemistry, Academy of Sciences, SSSR

Encl. 1

Encl. 2

Encl. 3

REF SOV: 002

OTHER: 001

Card 3/3

GUSEV, B.P.; KUCHEROV, V.F.

Chemistry of polyene and polyacetylene compounds. Report No. 1.
Aldehyde acetals of the diacetylene series and their use in the
synthesis of vinylideneacetylenic acids. Izv. AN SSSR. Ser. Khim.
no. 5: 851-855 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

SH. G. K. K. Y., A. V.; SH. G. K. Y., A. V.; SH. G. K. Y., A. V.

Cyclization of geraniol and related esters. Izv. Akad. Nauk.
khim. no. 6: 1068-1070 1965. (RUSS 1865)

1. Institut organicheskoy khimii L. M. Gel'mskogo AN SSSR.

KRASNAYA, Zh.A.; KUCHEROV, V.F.

Condensation of acetylenic acetals with ketones. Izv. AN SSSR.
Ser. khim. no.6:1070-1072 '65. (MIRA 18:6)

1. Institut organicheskoy khimii imeni Zelinskogo AN SSSR.

SMIT, V.A.; SEMENOVSKIY, A.V.; CHERNOVA, T.N.; KUCHEROV, V.F.

Cyclization of isoprenoid compounds. Report No.10: Dependence of the structural course of cyclization reaction of isoprenoids on the configuration of 6,7-double bond. Izv. AN SSSR. Ser. khim. no.731229-1236 '65.
(MIRA 18:7)

1. Institut organicheskoy khimii im. N.D.Zelinskego AN SSSR.

4
The diacetylene and polyacetylene compounds described in 17. Hydroxy-
acids of the diacetylene series and their esters are described in 18.

preparation of more complex polypeptides. The authors used the following general scheme of synthesis based on the condensation of 1-acyl-L-amino acids with their bromo-derivatives:

a) \mathbb{R}

$$C_2H_5Br + HC \equiv CCH_2CH_2Br$$

111

100

14 2.3

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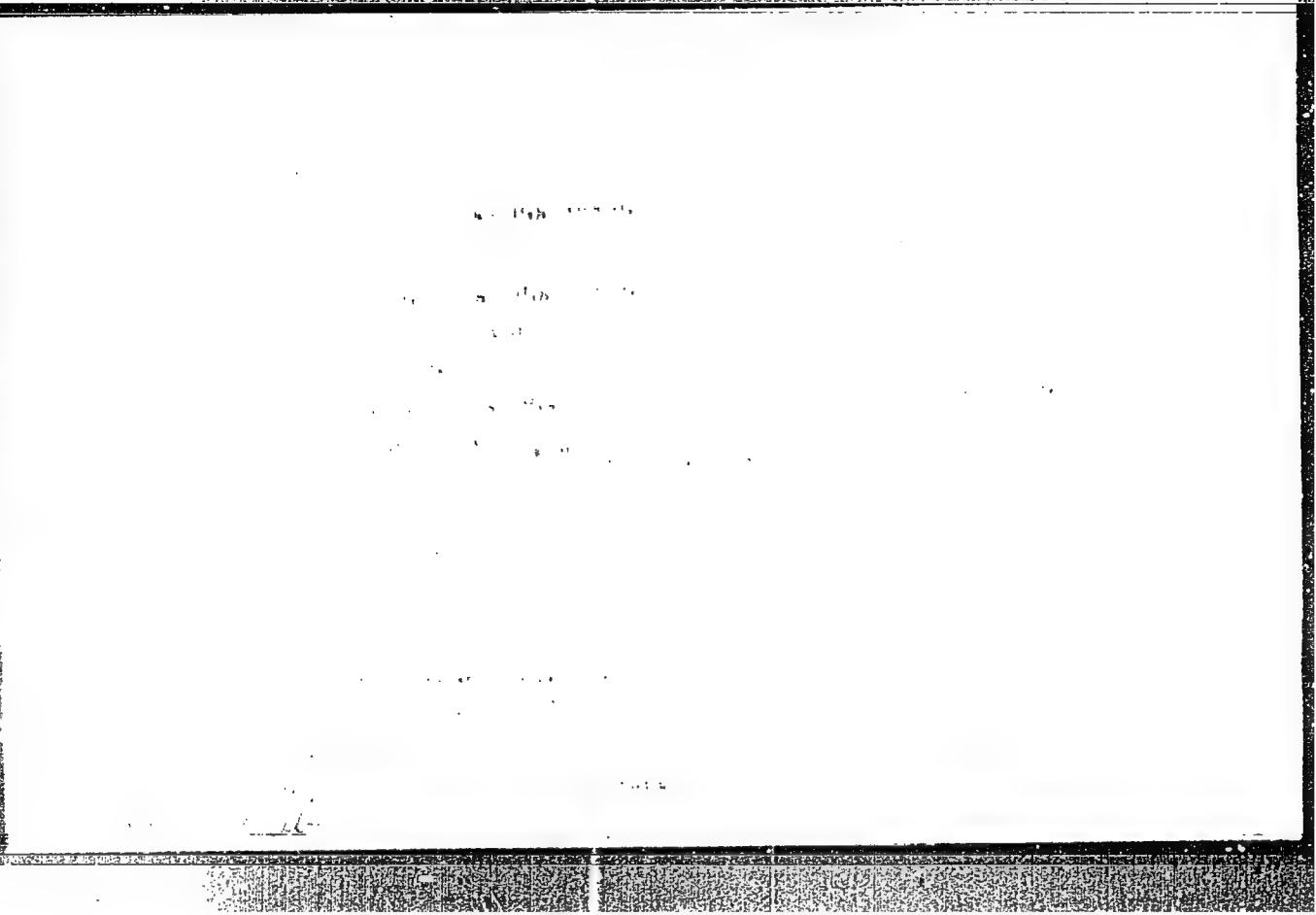
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$$x = \frac{1}{2} \left(\frac{1}{2} + \frac{1}{2} \right) = \frac{1}{2}$$

Card 2/3

"APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827110004-8



APPROVED FOR RELEASE: 06/19/2000

CIA-RDP86-00513R000827110004-8"

SEME NOVSKIY, A.V.; SMIT, V.A.; KUCHEROV, V.F.

Cyclization of isoprenoid compounds. Report No.11: Cyclization
of isomeric farnesenic esters and their monocyclic analogs.
Izv. AN SSSR Ser. khim. no.8:1424-1433 '65. (MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

MAVROV, M.V.; DERZHINSKIY, A.R.; KUCHEROV, V.P.

Reaction of inner-molecular cyclization of vinylacetylenic
systems. Izv. AN SSSR. Ser. khim. no.8:1460-1462 '65.
(MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

MEYER, I.V.; ZILINROV, V.F.

Synthesis of methyl ester of 4-bromo-2,3-butadienoic acid. Izv.
AN SSSR. Ser. khim. no.8:1494-1495 '65. (MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

YANOVSKAYA, L.A.; KUCHEROV, V.F.

Stereochemistry of the Wittig reaction with β -ionone. Izv.
AN SSSR. Ser. khim. no.8:1504-1506 '65. (MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

YANOVSKAYA, L.A.; STEPANOVA, R.N.; KUCHEROV, V.F.

Reaction of acetone-cyanohydrin with trans-,4-dimethoxybuten-
2-al. Izv. AN SSSR. Ser. khim. no.8:1509 '65. (MIRA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

YANGTZEKAYA, L.A.; KOLBERG, V.F.

Comparative reactivity of diacetals of the $(\text{CH}_3)_2\text{C}(\text{OR})_2$ and $\text{CH}(\text{OR})_2$ type. Izv. AN SSSR, Ser. Khim. No. 9:1657-1658 '69. (USSR, 33-0)

1. Institut organicheskoy khimii im. N.D. Zelinskogo, M.F.

GUSEV, B.P.; EL'PERINA, Ye.A.; KUCHEROV, V.F.

Isomerization of alkyl diacetylenes. Izv. AN SSSR. Ser. khim.
no.9:1659-1660 '65. (MIPA 18:9)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.

YU. V. V. V., V.R.; KOSHEV, G.A.; LOMOV, V.S.; BALYN, I.A.; CHEPACHENKO, N.V.;
BRODLOVA, F.M.; KUCHENOV, V.F.; GUSNI, B.P.

Antibacterial activity of the synthetic derivatives of capillens
(agropyrene) and capillin. *Antibiotiki* 10 no.2:156-159 F '65.
(MIRA 18:5)

1. Otdel khimioterapii (zav. - prof. A.M.Chernukh) Instituta
farmakologii i khimioterapii AN SSSR i laboratorii tekhnologii
organicheskogo sinteza (zav. - prof. V.P.Kushnerov) Instituta
organicheskoy khimii AN SSSR, Moskva.

SEMEVSKIY, A.V.; SMIT, V.A.; KUCHEROV, V.F.

New path of the stereospecific cyclization of isoprenoids. Dokl.
AN SSSR 160 no.5:1097-1100 F '65.

(MIRA 18:2)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR. Submitted July 28, 1964.

KUCHEROV, V.F.; GURVICH, I.A.; SIMOLIN, A.V.; MIL'SHTEYN, I.M.

Chromatographic analysis and preparative separation of gibborellins.
Dokl. AN SSSR 163 no.3:765-767 J1 '65. (MIRA 18:7)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Submitted October 7, 1964.

AP6025397

ORG: Institute of Organic Chemistry, Academy of Sciences, SSSR (Inst. of Organic Chemistry Khimii Im. N. D. Zelinskii Akademi nauk SSSR, Moscow, U.S.S.R. Ser. Khim., no. 7, 1966, 1209-1213)

TITLE: Chemistry of polyene and polyacetylene compounds. :VIII.

SOURCE: AN SSSR. Izv. Ser. Khim., no. 7, 1966, 1209-1213

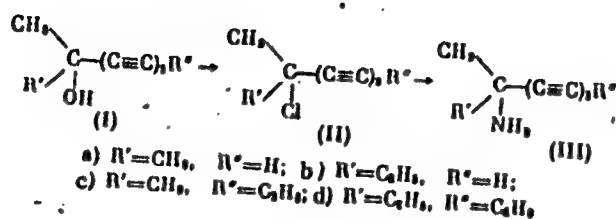
TOPIC TAGS: amine synthesis, diacetylenic amine, dialkylamine, tetraamino-

ABSTRACT: Acetylenic amines are of interest because of their potential physiological activity. At room temperature in the presence of HCl and CaCl₂, the diacetylenic alcohols (IIa, IIb, IIc, and IId) react with hydroquinone to form alkylideneboron- amide at room temperature yielded the primary amines of diacetylene series (IIIa, IIIb, IIIc, and IIId).

UDC: 542.91+547.35

Card 1/4

ACC NR: AP6025997



Composition and physical constants of the chlorodiacetylenes and amino-
 diacetylenes are given in the Table. N-Alkylation of IIIa with ethyl
 tosylate yielded the secondary amine VII, bp 46—47°C; alkylation of
 sodium derivative of IIIa with ethyl bromide at the terminal acetylene
 group in liquid ammonia yielded IIIb; IIIa is also easily converted into

ACC NR: AP6025397

Table 1.

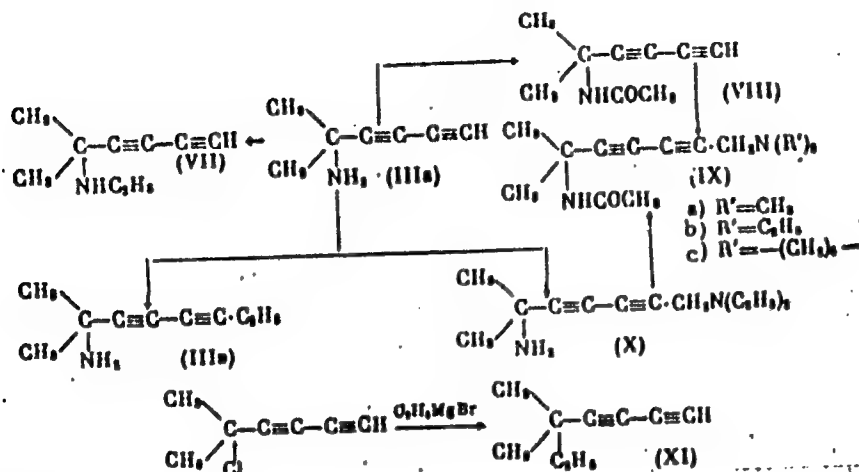
Formula	Yield, %	mp., °C (p, mm Hg)	n _D ²⁰	n _D ²⁵	Found, %				Calculated, %			
					C	H	Cl	N	C	H	Cl	N
$\begin{array}{c} \text{CH}_3 \\ \\ \text{R}^1 - \text{C} - \text{C} = \text{C} - \text{C} - \text{R}^2 \\ \\ \text{H} \end{array} \quad \text{(II)}$												
a) R ¹ = CH ₃ , R ² = H	91.1	29-30(6)	1.4926	2101.2280	66.44	8.63	27.8	—	66.42	8.67	28.01	—
b) R ¹ = CH ₃ , R ² = H	74.6	48-49(10)	1.5030		66.14	8.23	25.50	—	66.34	8.45	25.7	—
c) R ¹ = CH ₃ , R ² = C ₆ H ₅	77.8	98-99(20)	1.5126		73.82	7.04	22.57	—	69.90	7.13	22.97	—
d) R ¹ = C ₆ H ₅ , R ² = C ₆ H ₅	90	78-80(0.9)	1.5218		73.14	8.78	18.06	—	73.31	8.77	18.02	—
$\begin{array}{c} \text{CH}_3 \\ \\ \text{R}^1 - \text{C} - \text{C} = \text{C} - \text{C} - \text{R}^2 \\ \\ \text{NH}_2 \end{array} \quad \text{(III)}$												
a) R ¹ = CH ₃ , R ² = H	84.1	45-46(7)	—	2086.2250	78.14	8.72	—	12.45	78.40	8.69	—	13.07
b) R ¹ = C ₆ H ₅ , R ² = H	46.4	52-53(7)	1.4964		79.01	9.20	—	11.38	79.29	9.15	—	11.56
c) R ¹ = CH ₃ , R ² = C ₆ H ₅	41.8	76-78(7)	1.5148		79.44	9.61	—	10.29	79.92	9.67	—	10.36
d) R ¹ = C ₆ H ₅ , R ² = C ₆ H ₅	40.9	74-75(0.85)	1.5232	2136.7232, 2248	81.16	10.68	—	7.94	81.30	10.80	—	7.90

VIII, which was used in the Mannich reaction to obtain 1-dialkylamino-6-acetylamino-6-methyl-2, 4-heptadiynes, e.g., IXa. The reaction of IIa

Card 3/4

ACC NR: AP6025397

with ethylmagnesium bromide yielded 5,5-dimethyl-1,3-heptadiyne (XI),
bp 53—54°C (40 mm), n_D^{19} 1.4888:



Orig. art. has: 1 table.

[W.A. 50; CBE No. 10]

SUB CODE: 07/ SUBM DATE: 20Jan64/ ORIG REF: 002/ OTH REF: 006

Card 4/4

L 47327-66 EWT: EWP(j) RM

ACC NR: AR6025768

SOURCE CODE: UR/0058/66/000/004/D056/D056

AUTHOR: Kogan, G. A.; Ivanova, T. M.; Yanovskaya, L. A.; Kucherov, V. F.; Popov, Ye. M.

TITLE: Vibrational and electronic spectra of ethers of polyene carboxylic acids

SOURCE: Ref. zh. Fizika, Abs. 4D426

REF. SOURCE: Tr. Komis. po spektroskopii. AN SSSR, t. 3, vyp. 1, 1964, 113-124

TOPIC TAGS: ir spectrum, Raman spectrum, uv spectrum, carboxylic acid, electron spectrum, vibration spectrum, conjugate bond system

ABSTRACT: In order to study the mutual influence of functional groups of atoms through a system of conjugated bonds, the authors investigated the frequencies and integral intensities of the IR, Raman, and UV bands of polyene compounds of the type $X(CH=CH)_nCOOC_2H_5$ ($X = CH_3, OC_2H_5, COH, NO_2$, and $COOC_2H_5$; $n = 1 - 5$). On the basis of an analysis of the obtained data, the authors explain the causes of variations of these parameters and of the spectra of the compounds in the ground and excited states [Translation of abstract].

SUB CODE: 20

Card 1/1 mjs

GURVICH, I. I.; PILLCHENKO, I. M.; EL'FANT, V. F.

Some transformations of gibberellin acid derivatives. Izv. V SSSR.
Ser. Khim. no. 1:184-186 '66. (MIRA 1967)

I. Institut organicheskoy khimii Im. N. D. Zelinskogo V SSSR.
Submitted June 9, 1965.

EL'PERINA, Ye.A.; GUSEV, B.P.; KUCHEROV, V.F.

Conversions of secondary diacetylenic alcohols as a result of
alkaline isomerisation. Izv. AN SSSR. Ser. khim. no. 12:2215-2216
'65. (MIRA 18:12)

1. Institut organicheskoy khimii im. N.D. Zelinskogo AN SSSR.
Submitted April 14, 1965.

FERENSKIY, A.R.; MAVROV, M.V.; KUCHEROV, V.F.

Synthesis of acids of the polyacetylene series. Izv. AN SSSR.
Ser. khim. no.3:544-546 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

YANOVSKAYA, L.A.; KOVALEV, B.G.; KUCHEROV, V.F.

Chemistry of acetals. Report No.16: Ways of synthesizing symmetric and asymmetric difunctional polyene compounds. Izv. AN SSSR. Ser. khim. no.4:684-688 '65. (MIRA 18:5)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR.

(SIS, no. 1, 1965, no. 1; 10.0.11, 1.1).

1. Study of polyene and polyacetylene compounds. Report No. 11:
synthesis of tertiary alcohols and polyols of the diacetylenic series.
Izv. AN SSSR, Ser. khim. no. 1:628-692 '65. (MIRA 18:5)

2. Study of polyene and polyacetylene compounds. Report No. 12:
synthesis of tertiary alcohols and polyols of the diacetylenic series.
Izv. AN SSSR, Ser. khim. no. 1:628-692 '65. (MIRA 18:5)

KOGAN, G.A.; YANOVSKAYA, L.A.; STEPANOVA, R.N.; KUCHEROV, V.P.

Infrared spectra of functionally substituted linear polyenes.
Teoret. i eksper. khim. 1 no.3:411-414 My-Je '65.

Certain features of electronic absorption spectra of functional
substituted linear polyenes. Ibid.:414-417

(MIRA 18:9)

1. Institut organicheskoy khimii imeni N.D. Zelinskogo AN
SSSR, Moskva.

L 32685-66 EWT(m)/EWP(w)/T/EWP(t)/ETI/EWP(k) IJP(c) JD/HW/JG

ACC NR: AP6012729

SOURCE CODE: UR/0136/66/000/004/0074/0076

AUTHOR: Kucherov, V. I.; Zakharov, M. V.; Chizhov, S. I.; Korolev, P. V.;
Tikhonov, B. S.; Ryabova, P. S.

ORG: none

TITLE: Mechanical properties of the alloy Br.NBT at various temperatures

SOURCE: Tavetnyye metally, no 4, 1966, pp 74-76

TOPIC TAGS: beryllium bronze alloy, copper alloy, welding electrode, mechanical property, cold working, metal heat treatment/Br.NBT beryllium bronze alloy, Mts2 copper alloy, Mts3 copper alloy

ABSTRACT: This alloy, produced from the wastes of beryllium bronzes, is designed for use as electrode material for the spot, seam and butt welding of stainless and high-temperature steels with low heat conductivity and high strength. It differs from the Mts3 copper alloys (also used as electrode materials) in that it has a higher content of Ni (1.4-1.6%) and Be (0.2-0.4%) and contains Ti (0.05-0.15%) instead of Mg. The article presents data on the mechanical properties of the Br.NBT at room and elevated temperatures as a function of four different cold and hot working regimes of specimens of this alloy (regime 1 -- semicontinuous casting combined with quenching, tempering

Card 1/2

UDC: 669.35'24'725'295:620.1

L 32685-66

ACC NR: AP6012729

at 500°C, 3 hr; regime 2 -- as above, followed by cold forging to 50% and tempering at 450°C, 3 hr; regime 3 -- semicontinuous casting, hot rolling at 800-900°C with 90% reduction in area, quenching from 900-920°C and tempering at 470°C, 3 hr; regime 4 -- as above, with 80% reduction in area, and with quenching followed by cold rolling with 50% reduction in area and tempering at 430°C, 3 hr). Findings: regimes 3 and 4 appear to be optimal, since then ultimate strength σ_B of the specimens increases by an average of 5-8 kg/mm² in the 20-600°C temperature range and is not accompanied by a decrease in the indicators of plasticity; the Br.NBT specimens thus treated acquire a strength ($\sigma_B = \sim 75$ kg/mm²) that exceeds the strength of Cu-Co-Be, Mts2 and Mts3 alloys at elevated temperatures ($\sigma_B = \sim 55$ kg/mm²). Its high strength at temperatures as high as 600°C, combined with its moderate electrical conductivity (45-50% of the electrical conductivity of pure annealed copper) and comparatively low cost, make the alloy Br.NBT an excellent material for the electrodes used in the welding of stainless steels and high-temperature alloys. Orig. art. has: 1 figure, 2 tables,

SUB CODE: 11, 13/ SUBM DATE: none/ ORIG REF: 004/ OTH REF: 002

Card 2/2 BLG

L 04983-67

ACC NR: AT6030873

SOURCE CODE: UR/0000/66/000/000/0269/0276

AUTHOR: Gorovoy, V. R.; Kuchеров, V. M.; Parkhomenko, P. P.; Tomfel'd, Yu. L. 34
BT/

ORG: none

TITLE: A logic machine for automatic synthesis of (1, k)-terminal switching networks

SOURCE: Moscow. Institut avtomatiki i telemekhaniki. Abstraktnaya i strukturnaya teoriya releynykh ustroystv (Abstract and structural theory of relay devices). Moscow, Izd-vo Nauka, 1966, 269-276

TOPIC TAGS: switching theory, automatic machine, automaton, finite automation, automatic synthesis, machine synthesis

ABSTRACT: The authors describe a special-purpose machine ("Parus-1") intended for automatic synthesis of (1, k)-terminal switching networks by combinational logic. The automaton developed at the Institute of Automation and Telemekhanics is capable of synthesizing (1, 4)-terminal networks using 6 variables, (1, 8)-terminal networks with 5 variables, and (1, 12)-terminal networks with 4 or fewer variables. The synthesized network may contain a maximum of 14 nodes with at most 10 switching elements connected between any two nodes. Input data (logical requirements) in the form of a truth table are introduced through 16 groups of 3-position switches (16 switches per group). The three positions correspond to the D, 1, and don't-care

Card 1/2

L 04983-67

ACC NR: AT6030873

outputs of the synthesized network. Results are displayed on a board containing signal lights each of which represents one contact between two nodes. It was established that of the synthesized networks 60% contained the same number of contacts as the reference structures, 3% had fewer contacts, and 37% had more contacts. The number of redundant contacts usually did not exceed one. Orig. art. has: 2 tables. [BD]

SUB CODE: 09/ SUBM DATE: 06Jun66/ ORIG REF: 003/ OTH REF: 003/

Card

2/2

HL

COUNTRY : USSR
 CATEGORY : Cultivated Plants. M
 Potatoes. Vegetables. Cucurbits.
 ABS. JOUR. : RZhBiol., No. 3, 1957, No. 10968
 AUTHOR : Dolguashin, V. D., Kucherov, V. Yo., Snezhko, S. A.
 INST. : Voroshilovgrad Agricultural Institute.
 TITLE : An Important Subject in Vegetable Growing.
 ORIG. PUB. : Sad i ogorod, 1958, No. 3, 18019
 ABSTRACT : According to the experimental data of Voroshilovgrad
 Agricultural Institute (1955-1957), the late cabbage
 Savadovskaya VskhV develops, upon being sown directly into
 the ground, a vigorous root system penetrating deeper
 than with the cultivation by transplanting, and suffers
 less from lack of moisture. The intensive growth of the
 leaf surface explains the more productive utilization of
 water and nutrients and leads to an increase of 12-54%
 in the yield. — M. V. Dranishniko

CARD: 1/1

-64-

SOV/120-59-2-24/50

AUTHORS: Gavriilyuk, V.M., and Kucherov, Ya.M.

TITLE: An Ionisation Gauge for the Measurement of Pressures in the Range 10^{-4} to 10^{-10} mm Hg (Ionizatsionnyy vakuummetr dlya izmereniya davleniy 10^{-4} - 10^{-10} mm rt. st.)

PERIODICAL: Priory 1 tekhnika eksperimenta, 1959, Nr 2, pp 83-85 (USSR)

ABSTRACT: The manometric valve is shown in Fig 2 and is a modified form of the manometer described by Bayard and Alpert in Ref 1. The cathode of the valve is a tungsten wire 110 mm long and 0.1 mm in diameter. Two such cathodes are available, one of which is a spare. The grid of the valve is 30 mm in diameter and 50 mm long. It consists of a tungsten wire 0.4 mm in diameter. The grid is so constructed that it can be heated by an electrical current. The grid is isolated from the metallic supports by tubular ceramic insulators. The ceramic tubes can be heated up to 900 °C and can thus be reliably outgassed. The ion collector is a tungsten wire 50 mm long and 0.2 mm in diameter. The valve turned out to be more sensitive than the valve described by Bayard and Alpert. The valve constant is 0.15 amp/mm Hg

Card 1/2

SOV/120-59-2-24/50

An Ionisation Gauge for the Measurement of Pressure in the Range
10⁻⁴ - 10⁻¹⁰ mm Hg

at 5 mamp electron current. The valve may be used to measure pressures right down to 10⁻¹⁰ mm. The dependence of the ion current at the collector on the grid voltage is shown in Fig 3. The ion current at the collector, at a grid voltage of 100 volts, is greater than the photo-current from the collector even at a pressure of 5 x 10⁻¹¹ mm Hg. The electronic circuit used with the instrument is shown in Fig 4. The main part of this is a two stage d.c. amplifier using the 2E2P electrometer valve. N.D. Morgulis and G.F. Kobenchuk are thanked for interest and help respectively.

Card 2/2

There are 4 figures and 2 English references.

ASSOCIATION: Institut fiziki AN USSR (Institute of Physics of the Academy of Sciences of the Ukr. SSR)

SUBMITTED: June 9, 1958

KUCHEROV, Ya.M.

Conversion of oxygen into carbon monoxide on the surface of
incandescent tungsten. Ukr. fiz. zhur. 5 no. 5:719-720 S-O
'60. (MIRA 14:4)

1. Institut fiziki AN USSR.
(Oxygen) (Carbon monoxide) (Tungsten)

AID P - 5314

Subject : USSR/Aeronautics - Model Building

Card 1/1 Pub. 58 - 8/15

Authors : Yermakov, A., Ye. Kuoharov, V. Subbotin, V. Petukhin

Title : The victory of the Soviet model-builders

Periodical : Kryn. rod., 7, 11, 13-14, N 1956

Abstract : An account of the International Competitions of the Builders of Soaring Aeroplane Models Equipped with Piston Engines, held in 1956 in Yugoslavia under the auspices of the F.I.A. The main features of the design of some competing models are outlined. The model presented by the champion of Europe, Soviet sportsman V. Petukhov, is described in detail. 1 drawing, 1 photo.

Institution : None

Submitted : No date

DOLITSKIY, V.A.; DUBOVSKOY, I.T.; KUCHERUK, Ye.V.; KHENVIN, T.I.

Geological maps of the horizontal shears in the region of the Chir-Don dislocations. Izv. vys. ucheb. zav.; neft' i gaz 5 no.10:11-14 '62. (MIRA 17:8)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti imeni akademika I.M. Gubkina, Moskovskiy gosudarstvennyy universitet imeni Lomonosova i Nauchno-issledovatel'skaya laboratoriya geologicheskikh kriteriyev otsenki perspektiv neftegazonosnosti Glavnogo upravleniya geologii i okhrany neдр pri Sovete Ministrov RSFSR.

KUGUCHOV, Ye. V.

Agriculture

Crambe - new oleaginous crop in Bashkiria. Ufa, Bashgosizdat, 1951.

9. Monthly List of Russian Accessions, Library of Congress, November 1952 ~~1953~~, Uncl.

POLOZHENTSEV, P.A.; KUCHEROV, Ye.V.

Observations of the long-horned beetle (*Mesosa myops* Dalm.) and the pseudo snout beetle (*Tropideres albirostris* Hbat.) in deciduous forests of Bashkiria. Ent.oboz. 32:176-182 '52.

(MLRA 7:1)

1. Voronezhskiy lesokhozyaystvennyy institut.
(Bashkiria--Beetles) (Beetles--Bashkiria)

KUCHEROV, Ye. V.

USSR/Weeds and their Control

N

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1862

Author : L.I. Sergeyev, Ye.V. Kucherov, V.D. Siminov

Inst : Not Given

Title : On the Chemical Weeding of Grain Crops

Orig Pub : S.kh. Bashkiri11, 1956, No 2, 12-14

Abstract : In the fight against weeds attacking corn, the best results were obtained by introducing 2, 4-D into the nidus at 1 kg/h of active matter. With normal germination of corn, no young growth of weeds was discovered in the nidus. A positive result was obtained by spraying corn with 2, 4-D at 1 to 1.5 kg per hectare during the 2 to 3 leaf phases and in the case of grains, (millet and summer wheat) with respective amounts of 1.5 and 1.7 kh/h during the phase of shrubbing. In these instances, the weeds of the mustard family perished completely; from the root sprouters (thistle, bindweed and others), the parts above the ground either perished completely or were considerably destroyed.

Card : 1/1

KUCHEROV, Ye. V.

USSR/Cultivated Plants - Technical Oleaceae, Sugar Plants

M-7

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1670

Author : Ye.V. Kucherov, N.K. Kislinskiy

Inst : Not Given

Title : Crambe, Valuable Olive Cultivation

Orig Pub : Zemledeliye, 1956, No 10, 71-73

Abstract : The new olive cultivation Crambe or catran (*Crambe abyssinica* Hochst) from the mustard family (Cruciferae) is described. Seeds of this plant contain up to 53% oil, the fruits up to 36%; on the basis of yield, it surpasses many olive cultivations. It is but slightly affected by pests, is resistant to low temperatures and drought, during which it is able to cast off part of its foliage, which grows again during a wet period. Results are given of experiments on the periods and methods of planting conducted in the Kharkovskaya oblast' and Bashkirskaia ASSR.

Card : 1/1

Country : USSR
 Category : CULTIVATED PLANTS.MEDICINAL . Essential Oils. Toxins.
 Abs. Jour. : REF ZHUR-BICL.,21,1958,NO-96174
 Author : Kucherov, Ye.V.
 Title : Wild Medicinal and Edible Plants in the Bashkir Part of the Trans-Ural Region and Their Utilization
 Orig. Pub. : V sb.: Vopr. prirodo. ispol'zovaniya prirod. resursov Bashkirsk. Gaural'ye. Ufa, 1957, 68-82
 Abstract : A review is presented of approximately 100 species of medicinal plants which are encountered in the Bashkir part of the Trans-Ural region, with an indication of the plant names, pharmacotherapeutic action and use, habitats and the possibilities of preparation. Research has indicated that 46 species of these plants (47.4%) can be prepared on a large scale, 40 more plants can be prepared (41.3%) while the rest of the plant species have limited

Card: 1/2

Number : 61
Card No. : CULTIVATED PLANTS MEDICINAL
Abs. Jour. : REF ZHUR-BIOL., 21, 1958, NO-96174

Author :
Institute :
Title :

Orig. Pub. :

Abstract : use. Among the wild flora of the Bashkir Trans-
Urals there occur more than 60 species of edible
plants. The habitats in which the most important
of these grow are described.--T.L. Braytseva

Card: 2/2

KUCHEROV, Ye.V., kand.sel'skokhoz.nauk, red.; SIDOROV, V.V., red.;
SHAFIN, I.G., tekhn.red.

[Botanical Garden of the Bashkir Branch of the Academy of
Sciences of the U.S.S.R.] Botanicheskiy sad Bashkirskogo
filiala AN SSSR. Pod red. E.V.Kucherova. Ufa, 1959. 65 p.
(MIRA 13:1)

1. Akademiya nauk SSSR, Bashkirskiy filial, Ufa.
(Ufa--Botanical gardens)

KUCHEROV, Ye.V.

Abyssinian sea kale (*Crambe abyssinica* Hochst.), a new oilseed plant and possible regions for its cultivation. Trudy Bot.inst. Ser.6 no.7:121-123 '59. (MIRA 13:4)

1. Institut biologii Bashkirskogo filiala AN SSSR, Ufa.
(Kale)

KUCHEROV, Ye.V.

Materials on horseflies of the Southern Urals and the trans-Ural
region of Bashkiria. Zool.zhur. 38 no.9:1423-1426 '59.
(KVA 1:1)

1. Bashkirskiy filial Akademii nauk SSSR (Ufa).
(Ural Mountain region--Horseflies)

KUCHEROV, Yevgeniy Vasil'yevich; SULTANOVA, R.T., red.; PAZEY, S.I.,
tekm. red.

[Calendar of the nature of Bashkiria] Kalendar' prirody Bash-
kiri. Ufa, Bashkirekoe knizhnoe izd-vo, 1960. 83 p.
(MIRA 15:9)

(Bashkiria—Phenology)

VAKHRUSHEV, G.V., prof. red.; GIRFANOV, V.K., kand. sel'skokhoz. nauk, zaslužennyy deyatel' nauki BASSR, red.; KUCHEROV, Ye.V., kand. sel'skokhoz. nauk, otv. red.; KHANISLAMOV, M.G., kand. sel'skokhoz. nauk, red.; FEDORAKO, B.I., kand. sel'skokhoz. nauk, red.; POROYKOV, Yu.D., red.; KOBYAKOV, I.A., tekhn. red.

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